DALIMOV, Ziyad Aminovich

[Hydroseroiontherapy for hypertension] Gidroseroionoterapiia
gipertonicheskoi bolezni. Tashkent, Medgiz, UzSSR, 1959.

151 p. (MIRA 13:9)

(HYPERTENSION) (AIR, IONIZED)

DALIMOV, Z.A., kand.med.nauk; ADAMENKOVA, O.D., klinicheskiy ordinator

Treatment of hypertension with Tashkent mineral water. Trudy Uz.
gos. nauch.-issle inst. kur. i fizioter.no.15:183-192 '59.

(MIRA 14:9)

(HYPERTENSION) (MINERAL WATERS)

OBROSOV, A.N., otv. red.; MUMINOV, Ya.K., zam. otv. red.; BULATOV, P.K., red.; VASIL'YEV, L.L., red.; DALIMOV, Z.A., red.; KATSENOVICH, R.A., red.; KETKO, M.I., red.; MINKH, A.A., red.; CHERNYAVSKIY, Ye.A., prof., red.; SHRAMKOVA, G.A., red.; TSAY, A.A., tekhn. red.

[Aeroionization and hydroaeroionization in medicine] Aeroionizatsiia i gidroaeroionizatsiia v meditsine; materialy. Red. kollegiia: A.N.Obrosov i dr. Tashkent, Medgiz, 1962. 305 p. (MIRA 16:6)

1. Vsesoyuznaya konferentsiya po aero- i gidroaeroionizatsii,
Tashkent, 1960. 2. TSentral'nyy institut kurortologii i fizioterapii,
Moskva (for Obrosov). 3. Kafedra fiziologii cheloveka i zhivotnykh
Leningradskogo gosudarstvennogo universiteta (for Vasil'yev). 4. Uzbekskiy gosudarstvennyy nauchno-issledovatel'skiy institut kurortologii i fizioterapii im.N.A.Semashko (for Katsenovich). 5. Gospital'naya terapevticheskaya klinika Leningradskogo gosudarstvennogo meditsinskogo instituta im. I.P.Pavlova (for Bulatov).

(AIR, IONIZED--THERAPEUTIC USE)

"Mahoratory Research on Earth-Pigning Cachines, <u>Released String Atritel Stva</u>, Feb. 1942, p. 6-9

Dr. Rech. ci.
VINE (A-U Inst. for Mech. and Electr.)

DALIN, A. D. and P. V. PAVLOV.

Rotatsionnye gruntoobrabatyvaiushchie i zemlerclnye mashiny. Moskva, Mashgiz, 1950. 257 p. illus.

Bibliography: p. 255-256.

Dredging and excavating rotary machines.

DLC: TA735.D3

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

DALIN, A., SERDECHNYY, A.

Agricultural Machinery

New machines for the improvement of meadows and pastures. Kolkh. proizv. 12, No. 2, 1952.

9. <u>Monthly List of Russian Accessions</u>, Library of Congress, <u>June</u> 195**%**. Unclassified.

COMMINY . USSR

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DALIN, A.D., doktor tekhn.nauk

Combine for soil cultivation and sowing. Mekh. i elek. sots. sel'khos. 16 no.4:22-26 '58. (MIRA 11:10)

1. Vsesoyusnyy nauchno-issledovatel'skiy institut kormov imeni V.R. Vil'yamsa. (Agricultural machinery)

DALIN, A.D., doktor sel'skokhozyaystvennykh nauk; OS'MAKOV, I.G., kand. sel'skokhozyaystvennykh nauk; KARAYYANSKIY, N.S.

New tillage practices for raising corn and root crops outside the Chernozem belt. Dokl. akad. sel'khoz. 23 no.9:7-13 '58. (MIRA 11:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut kormov imeni V.R. Vil'yamsa. Predstavlena otdeleniyem zemledeliya Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I. Lenina. (Corn (Maize)) (Root-crops) (Tillage)

DALIN, A.D., doktor tekhn.nauk; CHRINENKOV, A.D., kand.sel'skokhoz.nauk; OS'MAKOV, I.G., kand.sel'skokhoz.nauk; KARAYYAESKIY, N.S.

New mothods of cultivating soil for corn and root crops in the non-Chernozem zone. Dokl.Akad.sel'khoz. 24 no.8:45-48 (MIRA 12:11)

1. Vsesoyuznyy nauchro-issledovatel'skiy institut kormov imeni V.R.Vil'yamsa. Predstavlena akademikon A.K.Karpenko. (Tillago) (Corn(Maize)) (Root crops)

"New Methodo of Grassland Improvement."

All-Union Scientific Research Inst. of Podder im. V.P.Vil'yamo, Lotniya, Moscow Oblast'. report to be presented at the 8th Intl Grassland Congress, Reading, England, 11-21 Jul '60

DALIN, A. M.

PA 23T63

Oct 1947

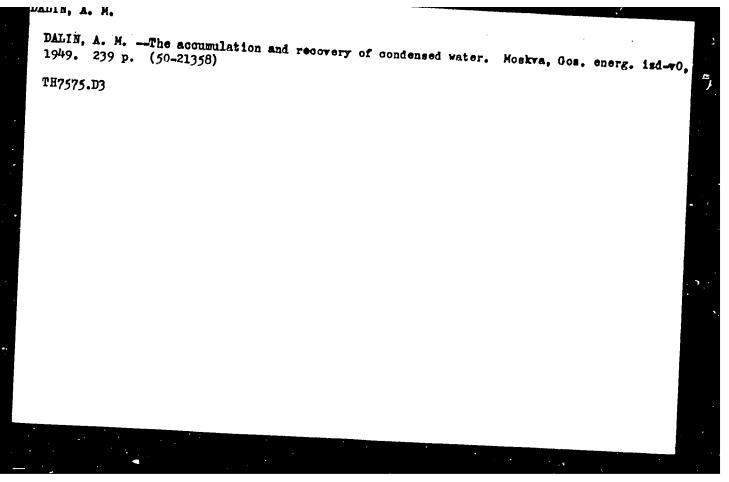
USSR/Engineering Condensation Products Pumping Machinery

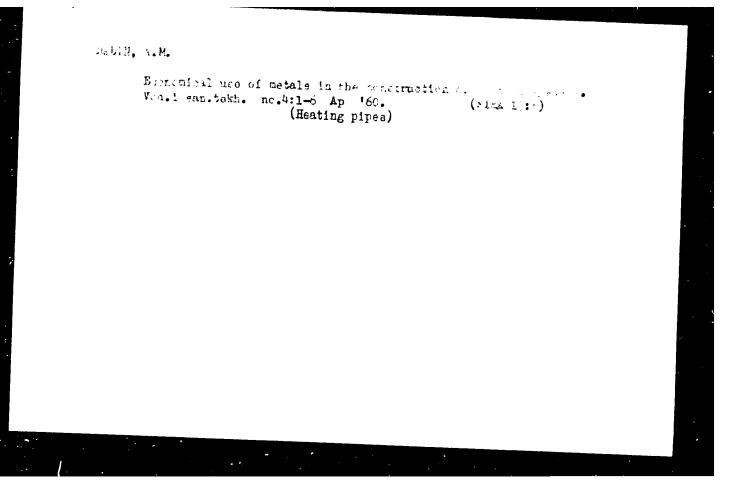
"Automatic Pumping Out of Condensate," A. M. Dalin, TeploElektroProyekt, 3 pp

"Promyshlennaya Energetika" No 10

Well illustrated article describing a system of pumping condensate out of condenser wats by means of a floating relay with a Fisher float chamber. This is also a good introduction to an automatic method of pumping condensate out by means of electrolyte relays.

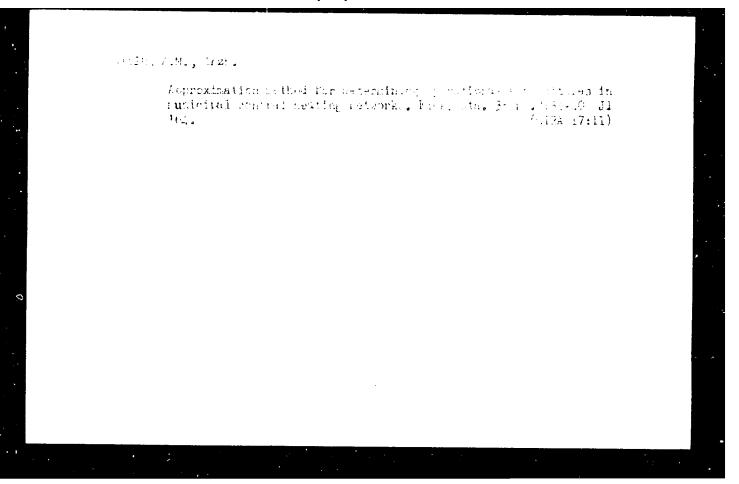
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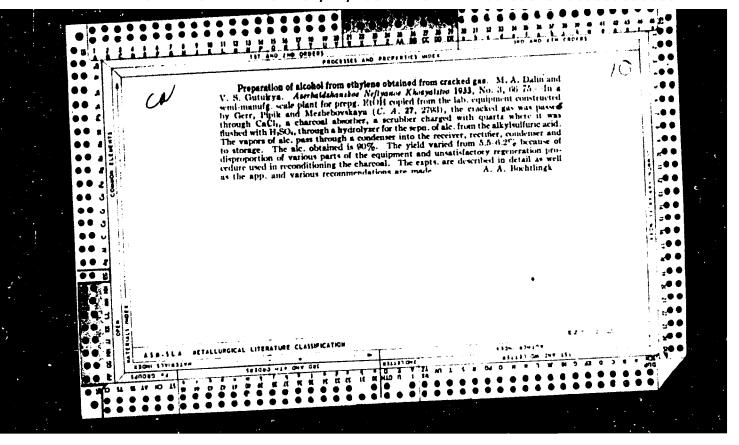


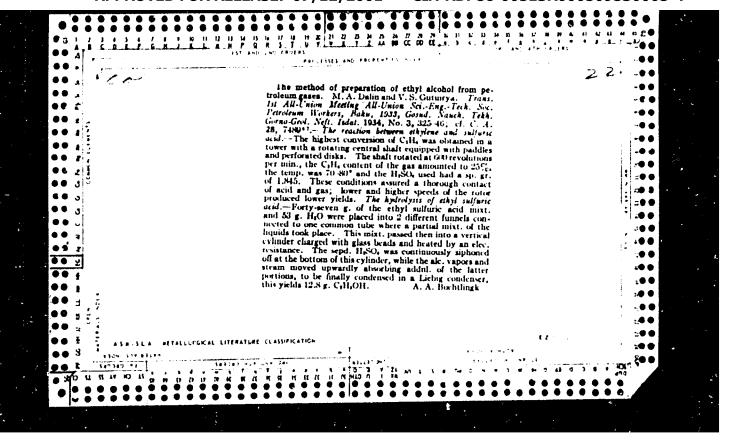


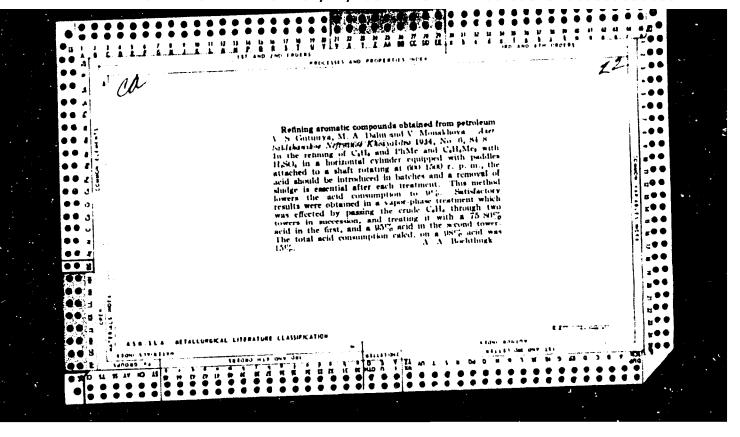
DALIN, A.M., inzh.

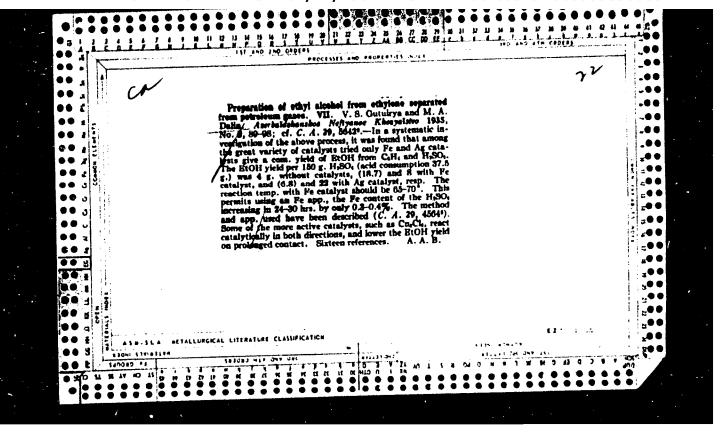
Approximation method for determining diameters, lengths, metal expenditures, and capital expenditures of thermal manicipal networks. Elek. sta. 31 no.8:33-39 Ag '60. (MIRA 14:9) (Heating from central stations)

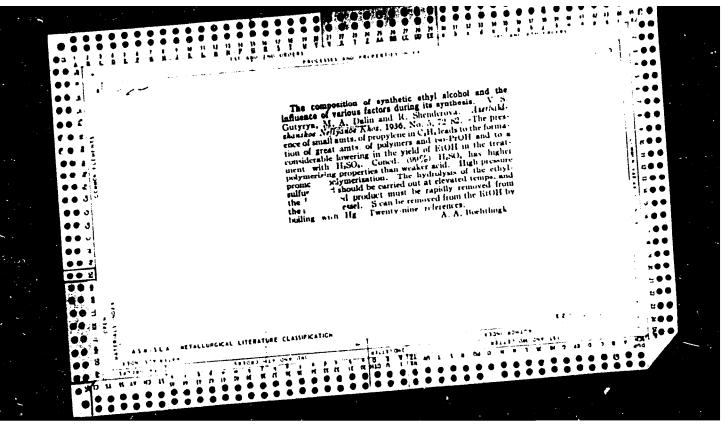


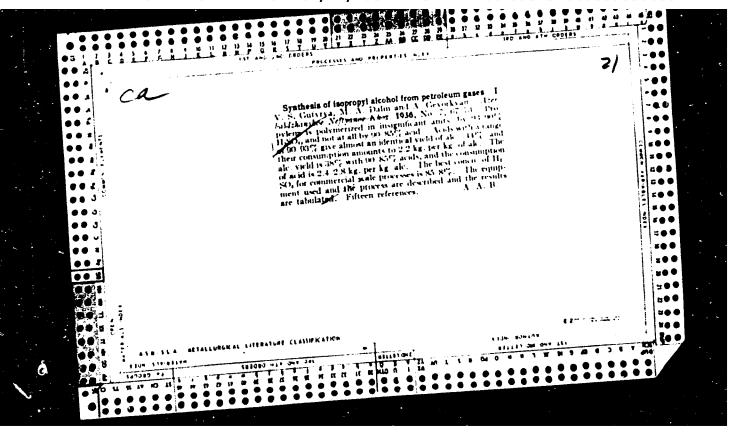


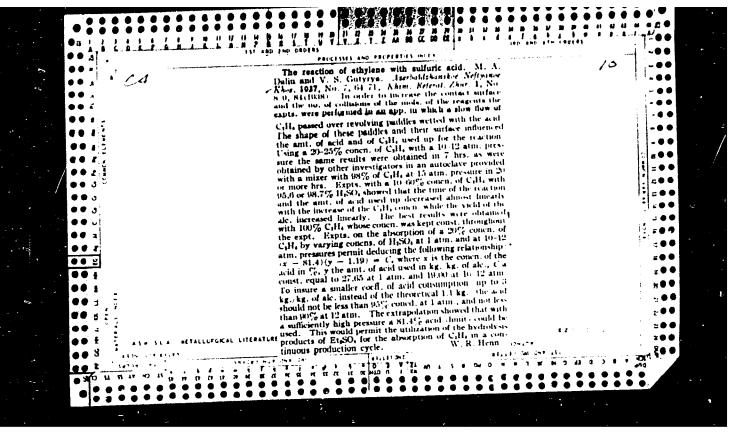


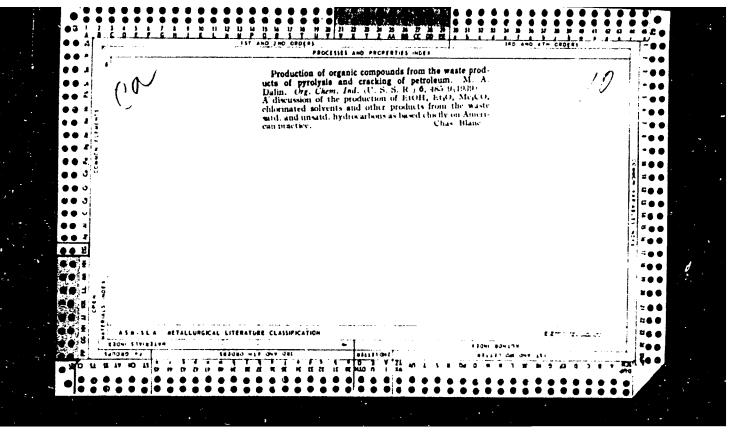


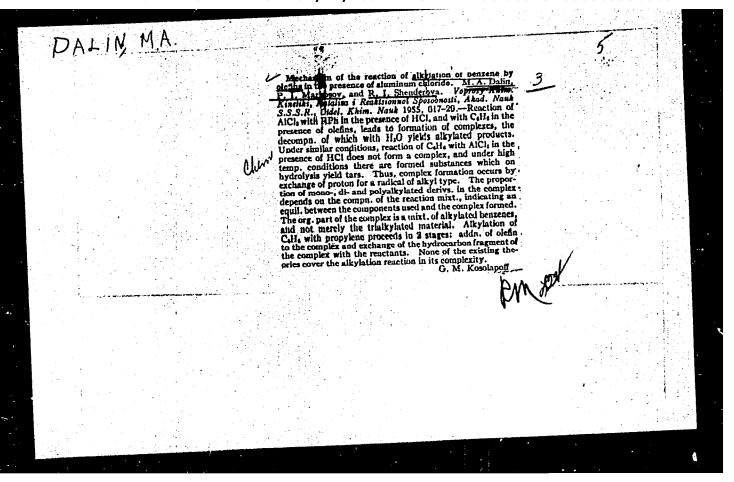












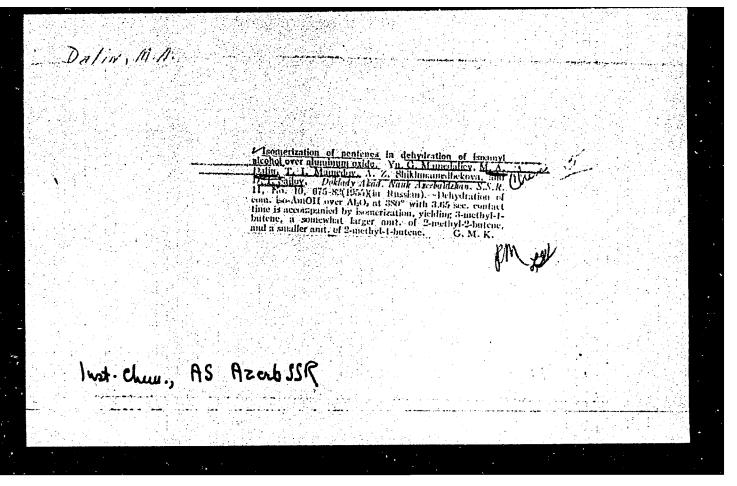
MAMEDALIYEV, Yu.G.; DALIN, M.A.; MAMEDOV, T.I.

Catalytic dehydrogenation of isopentane fraction. Dokl. Ak Azerb.
SSR 11 no.1:13-19 '55.

(MIRA 8:10)

1. Institut khimii Akademii nauk Azerbaydzhanskoy SSR.

(Dehydrogenation) (Butane)



I-1

DALIN, M.A

USSR/Chemical Technology - Chemical Products and Their

Application. Industrial Organic Synthesis

. Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2144

Author : Dalin, M.A., Markevich, S.M., Borisov, A.M., Mamedova,

V.M.,

Inst : Academy of Sciences USSR

Title : Technological Development of the Synthesis of Ethyl Alcohol

by Direct Hydration of Ethylene.

Orig Pub : Sb.: Khim. pererabotka neft. uglevodorodov. M., AN SSSR,

1956, 568-577

Abstract : Description of the technological system and of results of

the experiments on direct hydration of C₂H₄ to C₂H₅OH (I), in an experimental industrial unit with a reactor of 0.5 m

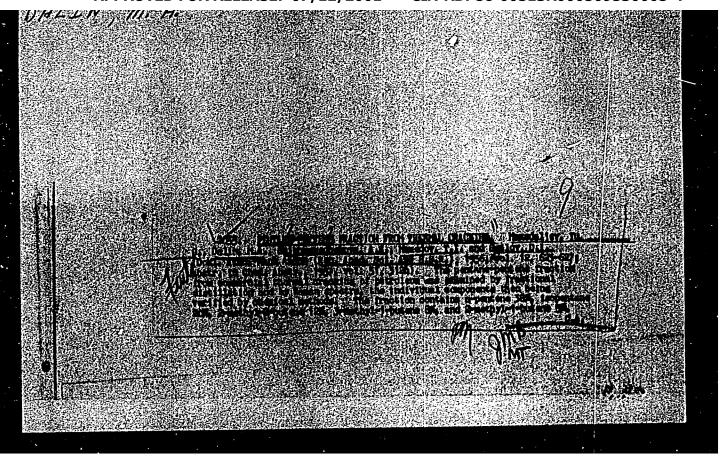
in diameter and 8 m high, using H₃PO₄ as a catalyst.

During the experiments the following optimal conditions of

During the experiments the following optimal conditions of

Card 1/2

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000509530005-4



DALIN, M.A.: SHIKHMAMEDHEKOVA, A.Z.

Catalytic dehydrogenation of hydrocarbons for the preparation of butadiene and isoprene. Trudy Inst.khim.AN Axerb.SSR 15:84-98 156. (MIRA 9:11)

(Butadiene) (Isoprene)

Dalw, M.A.

USSR /Chemical Technology. Chemical Products and Their Application

Treatment of natural gases and petroleus. Motor fuels. Lubricants.

Abs Jour: Referat Zhur - Khimiya, No 9, 1967, 31900

Author : Mamedaliyev Yu. G., Dalin M. A., Mamedov T. I.

Inst : Institute of Chemistry, Academy of Sciences

Azerbaydzhan SSSR

Title : Catalytic Dehydrogenation of Isopentane Fraction

Orig Pub: Tr. in-ta khimii AN AzSSR, 1956, 15, 100-118

Abstract: See RZhKhim, 1956, 59259

Card 1/1

DALIN, Mark Aleksandrovich; MARKOSOV, Petr Ivanovich; SHRIDEROVA, Roza

Isaskovna; PROKOVIEVA, Tatiyana Vladimirovna; SHEMASTIMA, Ye.V.
red.; SHPAK, Ye.G., tekhn.red.

[Alkylation of benzene by olefins] Alkilirovanie benzola olefinami.
Moskva, Gos.nauchno-tekhn.izd-vo khim.lit-ry, 1957. 117 p.

(Olefine) (Alkylation) (Benzene) (MIRA 11:2)

MAMEDALIYEV, Yu.G.; DALIN, M.A.; SHIKHMAMEDBEKOVA, Z.A.

Dehydrogenation of isopentenes to isoprene under reduced pressure.

Dokl. AN Azerb. SSR 13 no.9:961-965 57. (KIRA 10:9)

1. Institut khimii. (Pentene) (Dehydrogenation)

MAMEDALIYAV, Yu.G.; DALIN, M.A.; SHIKHMAMEDBEKOVA, A.Z.

Analyzing the pentane-pentene fraction of catalytic cracking. Dokl.
AN Azerb. SSR 13 no.11:1159-1164 '57. (MIRA 10:12)

1. Institut khimii AN AzerSSR. (Petroleum-Analysis)

SO7/64-58-6-3/15

AUTHORS:

Dalin, M. A., Burmistrova, R. S., Taniyants, K. D.

TITLE:

The Pyrolysis of Light Matillate Oil (Piroliz gazovogo benzina)
Study of Pyrolysis Under Semi-Industrial Conditions (Izucheniye

piroliza v poluzavodskikh usloviyakh)

PERIODICAL:

Khimicheskaya promyshlennost, 1958, Nr 6, pp 333-335 (USSR)

ABSTRACT:

An analysis of the pyrolysis of liquefied gas (Tuymazinsk) for the production of a raw material for unsaturated compounds was carried out on a semi-technical scale. The gasoline consists mainly of a pentane-hexane fraction. A schematic drawing and description of the testing plant are given. The analysis of the gas obtained by pyrolysis was carried out in the apparatus **WSIATIM!** -51 and **VII!**. The results obtained are given in a table and indicate, among other things, that a temperature increase does not only result in a higher yield of gas, but also in an increased concentration of ethylene. Optimum conditions stated are as follows: temperature of 220°, a contact time of one second, and an addition of steam to the extent of 20 per cent by weight. Under these

Card 1/2

The Pyrolysis of Light Distillate Oil Study of Pyrolysis Under Semi-Industrial Conditions 307/ 4-53-6-3/15

conditions the yield of gas obtained by pyrolysis is 62 per cent by weight (of the raw material), the ethylene content being 31,8 per cent by volume, the content of propylene and ethane 7 and 4 per cent by volume, respectively. The yield of liquid carbon is 16 per cent by weight, 45,6 per cent of which boil at 78-112. If the gas obtained has a composition that is similar to that of the gases obtained by the pyrolysis of the ethane and propane-propyl fractions, it can be conducted to the separating unit along with the other gases, and it is not necessary to change the production units for the individual olefins. There are 4 figures and 3 tables.

Card 2/2

DALIN, M.A.; SHENDEROVA, R.I.; VEHENEYEVA, L.Ya.; PIS'MAN, I.I.

Polymerization of ethylene on a chromium catalyst. Dokl. Al Azerb. SSR 14 no.12:991-996 "58. (MIRA 12:1)

1.Predstavleno akademikom AN Azerb. SSR M.F. Nagiyevym. (Ethylene) (Polymerization)

DALIN, M.A.

PHASE I BOOK EXPLOITATION

sov/4054

Akademiya nauk SSSR. Institut nauchnoy informatsii

Khimicheskaya promyshlennost' SSSR (The Chemical Industry of the USSR)
Moscow, Goskhimizdat, 1959. 457 p. Errata slip inserted. 4,100 copies
printed.

Sponsoring Agency: USSR. Gosudarstvennyy nauchno-tekhnicheskiy komitet.

Ed.: R. S. Romm; Tech. Ed.: P. V. Pogudkin; Editorial Board: A. P. Vinogradov, S. I. Vol'fkovich, N. M. Zhavoronkov, M. I. Ivanov, V. S. Kiselev, I. A. Lunacharskaya (Scientific Secretary), S. S. Medvedev, B. D. Mel'nik, A. N. Planovskiy, A. Ya. Ryabenko (Chief Ed.), and A. V. Topchiyev.

PURPOSE: This book is intended for the personnel of the chemical industry. It will be of interest to the general reader interested in the development and structure of the Soviet chemical industry.

Card 1/6

The Chemical Industry of the USSR

sov/4054

COVERAGE: This book contains 18 articles on various aspects of the Soviet chemical industry. Among the developments in the production of raw materials for the manufacture of chemical products discussed are: 1) the use of raw materials synthesized from natural gas and petroleum to replace food products in the production of synthetic rubber, alcohol, detergents, etc.; 2) the production of acetylene from natural and petroleum gases for the synthesis of vinyl chloride, acrilonitrile, chloroprene, trichloroprene, 1, 4-butadiene, and other organic substances, based on methods developed by M. G. Kucherov, A.Ye. Favorskiy and others; 3) the production of acetylene from saturated hydrocarbons by cracking methane (and its homologs) at 1450° in an electric arc between two special electrodes in a gas reactor, by pyrolysis (thermal oxidation) of methane in an improved furnace designed by B. S. Grinenko, by high-temperature pyrolysis of propane and butane in tubular furnaces, or by other methods of producing acetylene for the production of synthetic rubber, ethyl alcohol, and other organic substances; 4) the synthesis of halogen derivatives of aliphatic hydrocarbons for the production of solvents, refrigerants, pharmaceutical products, etc., and 5) the production of rubber accelerators from nitrogen-containing aliphatic hydrocarbons. The history of plastics production in the Soviet Union is reviewed, and names, locations, and products of plants as well as the names of outstanding personalities in the field are given. The technical level and prospects of further development of different branches of the plastics industries are also discussed

Card 2/6

The Chemical Industry of the USSR

SOV/4054

along with methods of manufacturing plastic articles. A special apparatus designed by Ye. M. Mogilevskiy and designated "VA" which permits preparation of viscose solution in one operation is discussed. It is being used to replace the complex, conventional equipment with great savings in space. General trends in the technology of synthetic fiber production are also discussed. A historical review of synthetic rubber production and the achievements of outstanding Soviet scientists in this field are given as well as names, locations and products of synthetic rubber plants. Rubber production and the manufacture of rubber goods are similarly reviewed. Statistical data and outstanding personalities in the development of the aniline dyes, paints and lacquers, mineral fertilizers, insecticides and fungicides, sulfuric acid, soda, mineral salts, radioactive and stable isotopes, and chemical reagents industries are given. Catalytic processes and automation and automatic devices used in the chemical industry are also discussed. Thirty-eight photographs included in the book show outside and interior views of some Soviet chemical industry plants, as well as their manufacturing, material-handling and laboratory equipment. Numerous personalities and facilities are identified in the body of the text. References accompany individual articles.

Card 3/6

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sov/64-59-5-4/28 5(1) Dalin, M. A., Mamedova, V. M., Kasparov, A. S. AUTHORS:

Catalytic Vapor-Phase Hydration of Propylene Into Isopropanol TITLE:

Khimicheskaya promyshlennost', 1959, Nr 5, pp 385-387 (USSR) PERIODICAL:

The optimum conditions for vapor-phase hydration of propylene ABSTRACT: (I) into isopropanol (II) with the aid of phosphoric acid catalysts were investigated on a pilot plant together with the IKhF AS USSR (Ref 4) and subsequently on an experimental plant (capacity; 1 t of (II)/24h). The kinetics of this reaction was already investigated by N. M. Chirkov and V. I. Tsvetkova (Ref 3). The scheme of the pilot plant used here is given in figure 1 from which it may be seen that the fraction of propylene (with a minimum of 80% by volume (I)) is mixed with the vapor condensate in the ratio (0.7-1): 1 and reaches the reactor at 170-180°. After condensation of II) the mixture again passes through the plant. The condensate contains 15-18% by weight (II). Coarse-pored silica gel (poro ity 65%) saturated with 50% orthophosphoric

acid (III)(first quality according to GOST 10114-39) was used as a catalyst (C). The bulk weight of the (C) amounted to 0.72 kg/l,

Card 1/2

Catalytic Vapor-Phase Hydration of Propylene Into Isopropanol

sov/64-59-5-4/28

the (III)-content to 41.5% by weight. The equilibrium constant of the reaction was computed according to Vvedenskiy's equation (Ref 6). The following optimum conditions were found:

Temperature 170-180, pressure 9-11 atm, volume velocity of (I)

500-650 hours⁻¹, molar ratio (water: (I) = (0.7-1): 1, concentration of (I) in gas 80-90%. Under optimum conditions the conversion of (I) to (II) amounts to 5-6% for one passage with an efficiency of 96%. There are 2 figures and 6 references, 5 of which are Soviet.

Card 2/2

SOW/64-59-5-25/28 SOW/64-59-5-25/28 ANTHORN Zlotin, L. Conference of Morkers of the Synchetic Ethyl Alcohol Industry FILLS: Genference of Workers of the Synchetic Ethyl Alcohol Industry N	Moveral of the control of the contro	Baros, Serienzad by Joo percons. It was opened by Toursde I. M. Baros, Serieszay of the Kalyabarakiy collestury scritter [NS] (Raybyer everance on the vote of the Merica of the industry of proprie were made on the vote of the plants of the industry reports were made on the vote of the plants of the industry of proprie were made on the vote of the plants of the industry of the plants of the	March of the authority of the first of the f	Garts 3/3
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DALIN, M.A.; BURIYAT-ZADE, A.A.; PIS'MAN, I.I.; BARESHI-ZADE, A.A.

Copolymorization of othylene with propylene. Azerb. Ehim.zhur.
no.4:21.26 159. (HIRA 14:9)

(Ethylene) (Propeno)

MAMEDALIYEV, Yu.G.; DALIN, M.A.; SHIKHMAMEDBEKOVA, A.Z.; MAMEDOV, T.I.

Dehydrogenation of isopentane and isopentenes to form isopreme.

Trudy Inst.khim.AN Azerb.SSR 17:123-130 '59. (MIRA 13:4)

1. Institut khimii AN AserSSR.

(Butane) (Butene) (Isoprene)

5/595/60/000/000/007/014 E196/E435

AUTHORS:

Mamedaliyev, Yu.G., Dalin, M.A., Shikhmamedbekova A.Z.

TITLE 3

Some results of research on dehydrogenation of

isopentenes to isoprene

SOURCE :

Vsesoyuznoye soveshchaniye po khimicheskoy pererabothe

neftyanykh uglevodorodov v poluprodukty diya sinteza

volokon i plasticheskikh mass. Baku. 1957. Baku, Izd-vo AN Azerb, SSR. 1960, 219 225

In their search for an economical raw material for the TEXT: production of monomers of isoprene rubber, considered the best synthetic rubber now in production, the authors carried out investigations of C5 fractions contained in thermal and catalytically-cracked gasolines. This was done for the purpose of determining the quantitative relationship between the various pentenes and isopentane of these fractions. The presence and quantity of these isomers was determined chemically and by spectrum analysis; the results are given in Table 2. The dehydrogenation of isopentenes to isoprene was carried out in the presence of industrial catalyst K 12 and K 16, normally used for Card 1/

Some results of research .

S/595/60/000/000/007/014 E196/E435

conversion of butenes to butadiene. As the dehydrogenation is favoured by the reduction in partial pressures of the reactants, the experiments were carried out either in partial vacuum (180 mm Hg) or with 4 to 10% of steam as diluent, at temperatures ranging from 530 to 630°C with velocities of 1.0 to 2.0 %/&ki. The catalyst was reactivated by passing air during 3 to 4 b. at temperatures not exceeding that of the experiment Bust restir were obtained with catalyst K-16 at 540°C with well- ity 2.0 % / hk / giving isoprene in 25 to 26% yield per pass or 82 to 84% on the decomposed isopentenes. An important conclusion was that fire dehydrogenation rates of the three isomers, isopentenes found if the Cq fraction from petroleum cracking, are ademia the means that a mixture of isopent-nes need not be separated this individual components before dehydrogenation to isoprobe. B.S.Korotkevich, A.Z.Dorogothinskiy and A.A.Bashifes are mentioned in the article. There are 2 figures 6 tables and 5 references 7 Soviet bloc and I non Soviet bloc. The reference to an English language publication reads as follows: Per 8 Melpolder Faw. Brown R₀A₈ and others. Industr Engage (non-1952 10 p+)

Card 2/3

Some results of research

\$/595/60/000/000/007/01\ E196/E435

Hydrocarbon	In C5 fraction from thermal cracking % W/W	In Co fraction from latelyti crecking % W/W
Isopentane	20	48
n-pentane	18	2:
pentene-1	12	3
pentene-2 fract	5	; 5
3-methylbutene·1	8	3
2-methylbutene-1	5	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
2-methylbutene-2	12	1 +
2-metnyloutene-2	12	1 +

Card 3/3

S/595/60/000/000/008/014 E134/E435

AUTHORS: Mamedaliyev, Yu.G., Dalin, M.A., Mamedov, T.I.

TITLE: Some results of work on the catalytic dehydrogenation

of isopentane fractions

SOURCE: Vsesoyuznoye soveshchaniye po khimicheskoy

pererabotke neftyanykh uglevodorodov v poluprodukty dlya sinteza volokon i plasticheskikh mass. Baku, 1957.

Baku, Izd-vo AN Azerb. SSR, 1960, 227-232

TEXT: The paper deals with the catalytic dehydrogenation of isopentane to isoprene, the object of the work being an economic process for the manufacture of isoprene from the pentane petroleum fraction, leading ultimately to the production of isoprene A fraction containing 94 to 96% isopentane was passed over the aluminium chromium catalysts K3, K5 and K9, which are used for the dehydrogenation of propane and butane. The work was carried out in a single passage of the isopentane over the catalyst in the continuous equipment described by the authors elsewhere (Ref.7: DAN Azerb SSSR. 1955, 11, no.1, 13; Ref.8: DAN Azerb SSSR 1956, 12, no.1, 3; Ref.9: Tr. In-ta khimii AN Azerb.SSR, 1956, 15. 106). The effect of temperature and flow rate on yield and Card 1/3

CIA-RDP86-00513R000509530005-4

Some results of work on ...

S/595/60/000/000/008/014 E134/E435

product composition was studied with catalyst K3 in the range of 490 to 530°C and space velocity of 0.7 to 1.5 per hour. product contained 3-methyl-1-butene, 2-methyl-1-butene and 2-methyl-2-butene in the ratios of 1.3:4.6:11.0. Some dienes were The work with K5 was concentrated on 520°C and a space velocity of 1 per hour and gave ratios of 1.0.3.6:10.0 for the above methyl butenes. A temperature range of 520 to 570°C and a space velocity of 0.5 to 3 per hour were employed for K9. effects of temperature and flow rate on yield and composition was The liquid product was about 90% of the isopentane investigated. The yield of unsaturated hydrocarbon increased from 16 to 40% with rising temperature. 2-methyl-2-butene was found to be the main isopentene formed (up to 70%). This may be due to isomerization of other isopentenes by the alumina catalyst carrier in the high temperature zone. The effect of diluents in the presence of K5 was also investigated nitrogen carbon dioxide hydrogen and a hydrogen/methane mixture being employed. results with hydrogen are given and higher dilution ratios were found to increase the amount of unsaturated product. Up to 75%

Card 2/3

Some results of work on

S/595/60/000/000/008/014 E134/E435

of unsaturated hydrocarbons were obtained but no isopentene analysis was carried out. Best results were obtained with isopentane:hydrogen ratios of 1:5-4; in these circumstances about 8% of diene on weight of isopentane feed were obtained. The authors consider the catalysts suitable for the dehydrogenation of isopentane. N.I.Shuykin is mentioned in the article for his contributions in this field. There are 4 figures and 31 references: 15 Soviet-bloc and 16 non-Soviet-bloc. The four most recent references to English language publications read as follows: Ref.17: Britton E.C., Dietzler A.I., Nodding C.R. Industr. Engng. chem., 1951, 43, no.12, 2871. Ref.18: Blue et al Industr. Engng. chem., 1952, 44, no.11, 2710; Ref.20: Eichens Selwood. Journ. Am. chem. Soc., 1947, 69, 1950, 2698, 1948, 70, 2271; Ref.26: Kearby K. Industr. Engng. chem., 1950, 42, no.2

Card 3/3

SEMENOV, N.N., red.; MAMEDALIYEV, Yu.G., red.; DALIN, M.A., red.; NAGIYEV, M.F., red.; ALIYEV, V.S., red.; KRANTSEL', B.A., red.; SHUYKIN, N.I., red.

[Proceedings of the All-Union Conference on the Chemical Processing of Petroleum Hydrocarbons into Intermediate Products for the Synthesis of Fibers and Plastics] Trudy Vsesoiuznogo soveshchaniia po khimicheskoi pererabotke neftianykh uglevodorodov v poluprodukty dlia sinteza volokon i plasticheskikh mass. 1957. Baku, Izd-vo Akad. nauk Azerbaidzhanskoi SSR, 1960. 313 p. (MIRA 14:7)

1. Vsesoyuznoye soveshchaniye po khimicheskoy pererabotke neftyanykh uglevodorodov v poluprodukty dlya sinteza volokon i plasticheskikh mass. 1957.

(Textile fibers, Synthetic) (Plastics)

DALIN, M.A.; BAKHSHI-ZADE, A.A.; PIL'MAN, I.I.; BUNIYAT-ZADE, A.A.

Some properties of the copolymer of ethylene with propylone.
Azerb.khim.zhur. no.1:25-29 '60. (Mikh 14:9)

(Ethylene) (Propene)

(MIRA 13:8)

Purification of ethyl alcohol obtained by direct hydration of ethylene. Khim.prom. no.4:275-277 Je 60.

(Ethyl alcohol) (Ethylene)

291.36 \$/081/61/030/017/105/166 B101/B102

AUTHORS:

Dalin, M. A., Spivak, R. Ye., Burmistrov, Ye F.

TITLE:

Production of para-tertiary butyl phenol on the basis of the commercial \mathcal{C}_A fraction of butane dehydrogenation

products

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 17, 1961, 361, abstract

17**/1**45 (Azerb. khim. zh., no. 6, 1960, 21 - 25)

TEXT: The possibility of achieving a complete extraction of isobutylene (I) (at a content of 3 - 4%) from the $\rm C_4$ fraction of the dehydrogenation process by means of phenol (II) is shown. Qualitative p-tert-butyl phenol is thus obtained, and part of highly concentrated I is separated. The optimum conditions for the alkylation of II with the $\rm C_4$ fraction were found to be a temperature of 100°C, 1% by weight of 100% $\rm E_2SO_4$ as a catalyst, a velocity of the fraction vapor of 0.25 m/sec in the free column cross section, and saturation of the alkylate 1 mole of I per mole of II. A $\rm C$ Card 1/2

Production of para-tertiary....

29**1,36** \$/061/61/000/017/105/166 E101/B102

partial dealkylation takes place if temperature is increased to 205°C and 98 - 99.5% of I is separated. Divinyl, which is present in the fraction in an amount of 3 - 4%, is not affected if the process takes place under optimum conditions. [Abstracter's note: Complete translation]

Card 2/2

The Azerbaijan chemical industry during the last 40 years. Azerb. neft. khoz. 39:26-27 Ap '60. (MIRA 13:11)

(Azerbaijan-Petroleum chemicals)

DALIN, M.A.; EURMISTROVA, R.S.

Pyrolysis of Karaday gas condensate. Azerb. neft. khoz. 39
no.3(405):41-42 Mr '60.

(Karaday region--Gas, Natural)

(Karaday region--Gas, Natural)

DALIN, M.A., akademik; VEDENEYEVA, L.Ya.; SHENDEROVA, R.I.

Polymerization of ethylene on a chromium oxide catalyst. Dokl.AN SSSR 133 no.1:182-185 J1 '60. (MIRA 13:7)

1. Akademiya nauk AzerbSSE (for Dalin). (Ethylene) (Polymerization)

s/020/60/133/005/010/019 B016/B060

5.3831

AUTHORS: Dalin, M. A., Academician AS AzerbSSR, Pis'man, I. I.,

Bakhshi-Zade, A. A., Buniyat-Zade, A. A.

TITLE:

Copolymerization of Ethylene With Propylene and

α-Butylene¶on Chromium Oxide Catalyst

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol. 133, No. 5,

pp. 1084-1085

TEXT: The authors wanted to carry out the synthesis mentioned in the title and to study more thoroughly the properties of the substances mentioned. The first results of their investigations are supplied in the present paper. For their experiments the authors made use of Vishnevskiy's mixer (Ref. 3). The solvent used was extraction benzine purified by activated chromium catalyst. The catalyst was prepared by the well-known method of Ref. 4. The ethylene- and propylene fractions of pyrogas were used as monomers. The butylenes were produced by dehydration of n-butyl alcohol upon aluminum oxide of the type A-1 (A-1) at 360°C. The mixture

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Copolymerization of Ethylene With Propylene and a-Butylene on Chromium Oxide Catalyst

S/020/60/133/005/010/019 B016/B060

contained 2 - 3% of isobutylene and 97 - 98% of normal butylenes. The butylene fraction was dehydrated on fine-porous silica gel and calcium hydride during production. The gas mixtures were prepared in carefully dried metal balloons. After the pressure drop had stopped the autoclave was allowed to cool and pressure was reduced. The copolymer taken from the autoclave was heated together with the catalyst in a vessel with ligroin, and was subsequently filtered off the catalyst on a paper filter The polymer was then washed with ethanol, dried, and analyzed. Table ! shows the properties of polyethylene, which constitutes a copolymer of ethylene with propylene. It contains (in 5 by weight), propylene 12.6, ethylene 87.4, and ethylene-a-butylene copolymer (7% or butylene and 93% of ethylene). As can be seen from Table 1. the copolymers of ethylene with propylene and with α -butylene differ from polyethylene with respect to melting temperatures, solubility in n-heptane, and specific elongation in cold drawing. The greater flexibility is striking but so is also a lesser strength of the ethylene-propylene copolymer as compared with polyethylene. The ethylene-a-butylene copolymer comes near

Card 2/3

Copolymerization of Ethylene With Propylene and a-Butylene on Chromium Oxide Catalyst S/020/60/133/005/010/019 B016/B060

polyethylene as to strength but surpasses it as to elasticity. There are 1 table and 5 references: 2 Soviet, 1 US, 1 Belgian, and 1 Italian.

SUBMITTED:

February 5, 1960

Card 3/3

DALIN, Mark Aleksandrovich; VASINA, T.V., red.; ZAZUL'SKAYA, V.F., tekhn.

[Petrochemical syntheses] Neftekhimicheskie sintezy. Moskva, Gos. nauchno-tekhn. izd-vo khim. lit-ry, 1961. 97 p. (MIRA 14:8) (Petroleum chemicals)

5/081/62/000/004/086/087 B102/B101

AUTHORS: Dalin, M. A., Shenderova, R. I., Pis'man, I. I., Bakhshi-

zade, A. A., Vedeneyeva, L. Ya., Buniyat-zade, A. A.

TITLE: Synthesis of polyethylene and of copolymers of ethylene with

propylene and α-butylene on an chromium oxide catalyst

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 4, 1962, 669, abstract 4R128 (Azerb. khim. zh., no. 1, 1961, 17 - 22)

That: Purification of thylene (I) was carried out on a pilot-plant scale allowing for an increase in efficiency of the oxide-chromium oxide catalyst (COC) up to 176 - 250 g/g when I is polymerized in extraction benzine purified with sulfuric-acid, or in cyclohexane (120 - 130°C, 3 - 5 hrs, 45 at, COC concentration C.13 - 0.25%). When ethylene is copolymerized with propylene (II) (6.7 - 15% by volume) (110 - 120°C, 40 at) in benzine in the presence of an CaC₂ activator (20% of the catalyst's

weight), the efficiency of the COC is reduced to 68 - 135 g/g owing to the lower reactivity of II and to its incomplete purification. The copolymer

Card 1/2

Synthesis of polyethylene and...

S/081/62/000/004/086/087 B102/B101

(CP) differs from the polymer of I by its lower crystallinity. The content of crystalline whase decreases with increasing polymerization temperature and increases with pressure. For the melting point in °C, relative elongation in %, rupture strength in kg/cm², and solubility in n-heptane are enumerated: I, '128 - 130, 310,' 600, 260 - 300, 10 - 15; CP of I with II, 122 - 126, 720 - 1020, 170 - 220, 60 - 70; CP of I with α-butylene (2.5 - 4.5 vol%), 125 - 127, 500 - 800, 250 - 300, 30 - 40. [Abstracter's note: Complete translation.]

Card 2/2

DALIN, M.A.; PIS'MAN, I.I.; BAKHSHI-ZADE, A.A.; BUNIYAT-ZADE, A.A.;

POKOTILOVA, S.D.

Copolymerization of ethylene with &-olefins on a chromium oxide catalyst. Azerb.khim.zhur. no.2:9-16 '61. (MIRA 14:8) (Ethylene) (Clefins) (Polymerization)

S/064/61/000/003/002/009 B101/B203

AUTHORS:

Dalin, M. A., Spivak, R. Ye., Burmistrov, Ye. F.,

Vyaz'mitinova, L. M.

TITLE:

Joint production of isoamylenes and para-tert-amyl phenol

PERIODICAL:

Khimicheskaya promyshlennost', no. 3, 1961, 21-24

TEXT: Isoamylenes are used as raw material for the production of isoprene. They are profusely available in the cracking products of petroleum. Their fractional separation is, however, made difficult by the adjacent boiling points of the individual hydrocarbons with 5 C atoms. Therefore, the authors studied the selective production of isoamylenes by alkylation of phenol and subsequent decomposition of the phenol amylethers into phenol and olefins. They used as initial substances: 1) pentane amylene fraction with 15-20% isoamylenes, 30-35% n-amylene; 2) phenol with the melting point at 41°C. 95.6% sulfuric acid was used as a catalyst. The first experiments were made with an electrically heated glass column. Phenol was filled into the column, and the required H₂SO₄ amount was added under stirring. After heating, the vapor of the pentane amylene fraction Card 1/8

Joint production of isoamylenes ...

S/064/61/000/003/002/009 B101/B203

entered the column from below through a Schott filter. The reaction products were condensed. The dealkylation was performed in a rectifying column with filling from short glass tubes. Liberation of isoamylenes started at 160°C, and was finished at 205°C. However, p-tert-amyl phenol also formed as a by-product. Resin was left behind as a distillation residue. The initial fraction and the resulting isoamylenes were analyzed in a nitrogen flow by absorption in 64% $\mathrm{H_2SO_4}$ (isoamylenes) and 84% $\mathrm{H_2SO_4}$ (n-amylene) in a DTM(VTI) gas analyzer. The authors studied the effect of the temperature at which the phenol was alkylated on the yield in isoamylenes (Fig. 3). At temperatures above 80°C, the amount of amyl phenol increased. 1% of sulfuric acid referred to phenol was found to be the optimum admixture. Larger admixtures increased the amount of resin residue. Fig. 6 shows the yield of isoamylenes as a function of the molar ratio isoamylenes: phenol. If 1:1 is exceeded, the formation of amyl phenol increases (Fig. 7). The optimum established was a pressure of 2 atm at which the reaction products were better condensed than at atmospheric pressure. Still higher pressure may lead to condensation of the initial fraction in the alkylation vessel. As the laboratory apparatus

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S/064/61/000/003/002/009 B101/B203

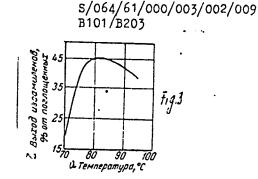
only permitted a low vapor velocity, tests were made with the pilot apparatus shown in Fig. 8 which permitted a vapor velocity of up to 1 m/sec with strongly reduced resinification. Table 1 shows the results. As amyl phenol was formed besides phenol ethers which decomposed again on heating, the authors studied at what ratio phenol: amyl phenol (designated initial molar saturation) the optimum yield in isoamylenes was obtained. Fig. 9 shows the result. Experiments made under the supervision of M. I. Arkhipov at the Ivanovskiy khimiko-tekhnologicheskiy institut (Ivanovo Chemotechnical Institute) showed that the resulting amyl phenol could be used for the production of phenol formaldehyde resins. Papers by V. W. Ipat'yev, I. P. Tsukervanik, and Z. N. Nazarova, V. W. Isagulyants, and P. P. Bagryantseva are mentioned. There are 9 figures, 2 tables, and 8 references: 3 Soviet-bloc and 5 non-Soviet-bloc.

Card 3/8

Legend to Fig. 3: a) temperature; b) yield of isoamylenes in % of the absorbed vapor;

Legend to Fig. 6: a) molar ratio isoamylenes: phenol; b) yield of isoamylenes in % of the absorbed vapor;

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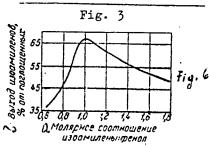


Fig. 6

S/064/61/000/003/002/009 B101/B203

Legend to Fig. 7: a) molar ratio isoamylenes: phenol; b) phenol and amyl phenol, % by weight

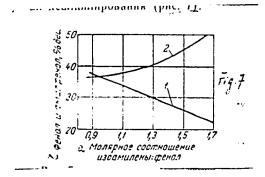
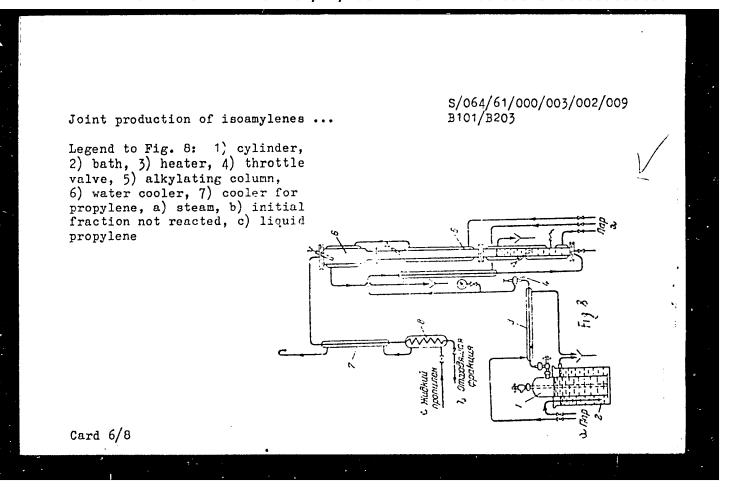


Fig. 7

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S/064/61/000/003/002/009 B101/B203

Legend to Table 1: 1) amount of reacted fraction, g, 2) steam velocity in the free cross section of the column, 3) content of isoamylenes (% by volume) in the fractions, a) initial, b) residual fraction, 4) yield of isoamylenes in % of the adsorbed vapor, 5) amount (%) of isoamylenes dealkylated in the temperature range:, c) up to, 6) concentration (%) of isoamylenes dealkylated in the temperature range:

Пропущено фракции, г	Скорость паров в свободном сечении колонки , м/сек	3 Содержание изодми- ленов (% об.) во фракциях		выход что- амиленов	Количество (%) изо-			
		С исходной	<i>Ъ</i> отходящей	2000 the state of	температур		٠٤ ١٢٥٥	160 20 5°
					€ ao 160°	160-205°	до 160°	100-205
3110	0.05	10.0	5,2	45,2	61.2	35,8	50,8	92,1
6290	0.10	18.0	8,2	51.1	58,4	41.9	54,2	93,1
3920	0,23	18.0	6,4	62,3	40,5	59.5	64,2	94,6
5520	0,29	18,0	6,3	62,8	38,0	62,0	61.3	90.0
4670	0.55	9,5	0.9	88,1	28.0	72.0	68.3	91,0
6200	0,87	18,7	2.4	85,2	13.0	87,0	74,5	95.7
1970	0.90	12.5	1,3	89,0	5,0	95,0	83,2	98,1

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Card 8/8

DALIN, M.A.; SPIVAK, R.Ye., BURMISTROV, Ye.F.; VYAZ'MITINOVA, L.M.

Combined production of iso-amylenes and para-tert-amylphenol.
Khim.prom. no.3:169-172 Mr '61. (MIRA 14:3)

(Butene) (Phenol)

PIS'MAN, I.I.; DALIN, M.A.; MAMEDOVA, E.S.; KAS'YANGV, V.V. Production of &-butylene by the dehydration of n.butyl alcohol on A-1 aluminum oxide. Report No.1. Azerb.khim.zhur. nc.6:67-72 (MIRA 15:5)

161.

(Butene) (Butyl alcohol)

DALIN, M.A.

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PHASE I BOOK EXPLOITATION

SOV/6195

- Nauchnaya konferentsiya institutov khimii Akademiy nauk Azerbaydshanskoy, Armyanskoy i Gruzinskoy SSR. Yerevan, 1957.
- Materialy nauchney konferentsii institutov khimii Akademiy nauk Azerbaydzhanskoy, Armyanskoy i Gruzinskoy SSR (Materials of the Scientific Conference of the Chemical Institutes of the Academies of Sciences of the Azerbaydzhan, Armenian, and Georgian SSR) Yerevan, Izd-vo AN Armyanskoy SSR, 1962. 396 p. 1100 copies printed.
- Sponsoring Agency: Akademiya nauk Armyanskoy SSR. Institut organicheskoy khimii.
- Resp. Ed.: L. Ye. Ter-Minasyan; Ed. of Publishing House: A. G. Slkuni; Tech. Ed.: G. S. Sarkisyan.
- PURPOSE: This book is intended for chemists and chemical engineers, and may be useful to graduate students engaged in chemical research.
- COVERAGE: The book contains the results of research in physical, inorganic, organic, and analytical chemistry, and in chemical engineering, presented at the Scientific Conference held in Yerevan, 20 through 23 November 1957. Three reports of particular interest are reviewed below. No personalities are mentioned. References accompany individual articles.

Materials of the Scientific Conference (Cont.)

307/6195

silicate mineral) as a catalyst carrier have been determined. The study was of interest because this petroleum fraction is used as diesel and jet fuel and is degraded for those purposes by the presence of n-alkanes. Optimum conversion conditions were obtained with hydrogenation under 30 atm. H in a flow reactor at 450°C with a hydrogen/hydrocarbon molar ratio of 3: 1 and a hydrocarbon space velocity of 0.5 hr⁻¹. Catalysis with 0.5% of Pt or Pd on Al₀O₆ or "gumbrin" caused an extensive conversion of normal undecane and dodecane and improved the motor properties of hydrogenation-cracking products by increasing their heating efficiency by 80 kcal/kg and reducing their pour points by 16 to 48.5°C.

Mamedaliyev, Yu. G., M. A. Dalin, and T. I. Mamedov, Catalytic Dehydrogenation of the Isopentane Fraction

324

Vartanyan, S. A., V. N. Zhamagortsyan, and Sh. O. Badanyan.
Synthesis and Investigation of Aminoacetylenic and α-Alkoxyvinylacetylenic Alcohols

336

Card 9/11-

DALIN, M.A.

Development of methods of production of olefin hydrocarbons.

Report presented at the 12th Conference on high molecular-weight compound devoted to monomers, Baku, 3-7 "pril 62

PECHURO, P.S., MERKU'YEVA, A.P., GRISHI A, G.A., BURMISTROVA, E.F. DALINE, M.A.

Dissociation of fluid petroleum products in an electric discharge.

Report presented at the 12th Conference on high molecular weight compounds, devoted to monomers, Baku, 3-7 April 62

\$/064/62/000/002/001/008 B105/B101

AUTHORS:

Dalin, M. A., Guseynova, Z. D., Savel'yev, Yu. V., Taniyants,

K. D., Burmistrova, R. S., Belen'kaya, Ye. L.

TITLE:

Production of high-purity ethylene

PERIODICAL: Khimicheskaya promyshlennost¹, no. 2, 1962, 1 - 3

TEXT: Special purification methods of pyrogas for the production of high-purity ethylene are described. The study was conducted in an experimental plant with a productivity of 800 Nm²/h as follows: (1) Purification of the gas from sulfur compounds and carbon dioxide by means of 11.6% NaOH. The pyrogas is previously cooled to 15 - 18°C to eliminate polymerizable hydrocarbons, and purification is performed at a watering density of 7 m³/m²·h, a linear pyrogas velocity of 0.04 m/s, and a temperature of ~50°C. (2) Dehydration of the gas in two stages: from an initial pyrogas moisture of 225 mg/Nm² to 20 mg/Nm³, as well as from 20 to 10 mg/Nm³. Silica gel of the following specification was tested: volume weight 0.85 g/cm³; specific pore volume 0.320 cm³/g; specific surface 537 m²/g; average pore radius 11.8 %. Dehydration of air and Card 1/3

Production of high-purity...

3/064/62/000/002/001/008 3105/3101

ethylene was performed under laboratory conditions by means of molecular sieve of the NaA type produced at the Grownii, the Gor'kovskaya opytnaya baza VNIINP (Gor'kiy Experimental Base VNIINP), and the Institut fixicheskoy khimii AM USSR (Institute of Physical Chemistry AS UkrSSR). The yolume weight of the molecular sieve varies between 0.45 and 0.7 g/cm². (3) The purification of the ethylene-ethane fraction from acetylene may be realized by selective hydrogenation in the presence of catalysts, or (for more than 0.5% $C_{\rm 2H_2}$) by absorption with organic

solvents. An industrial nickel-chrome catalyst was tested in an experimental plant. The ethylene-cthane fraction with a content of 0.025 to 0.19% acetylene was hydrogenated by the methane-hydrogen fraction of the pyrogas at 150 - 190°C, 25 - 25 atm, 4000 - 6000 h⁻¹ volume velocity, and a hydrogen concentration of 25 - 30% in the methane-hydrogen fraction. (4) Methane removal of the ethylene-cthane fraction by fractional distillation at -23 to - 32°C. The methane and carbon monoxide content in ethylene after methane removal was determined by the xT-2M (KhT-2M) chromatograph. Activated carbon of the type AP-3 (AR-3) was used as adsorbent. There are 4 figures, 2 tables, and 7 references: 1 Soviet and 6 non-Soviet. The four most recent references to English-language Card 2/3

Production of high-purity...

5/064/62/000/002/001/008 B105/B101

publications read as follows: W. H. Stanton, Petr. Refiner no. 5, 1959, 177; R. E. Reitmeier, H. W. Fleming, Chem. Eng. Progress <u>54</u>, no. 12, 1958, 48. U. S. Catalysts and Chem Inc., Louisville, Kentucky, 1958.

Card 3/3

PIS'MAN, I.I.; DALIN, M.A.; KAS'YANOV, V.V.; MAMEDOVA, E.S.

Preparation of \propto -butylene by dehydration of n-butyl alcohol on aluminum oxide A-1. Azerb. khim. zhur. no.3:49-58 '62. (MIRA 16:12)

DALIN, M.A.; CHERITSHEVA, T.I.

The 12th Conference on Macromolecular Compounds. Khim.prom., (MEA 15:7)

no.5:384-385 My '62. (MEA 15:7)

(Macromolecular compounds—Congresses)

S/204/62/002/003/002/002 1032/1232

AUTHORS:

Dalin, M. A. and Chernysheva, T. I.

TITLE:

12th Conference on high molecular-weight compounds, devoted to monomers

PERIODICAL: Neftekhimiya, v. 2, no. 3, 1962, 415-419

TEXT: The conference was organized by the Otdeleniye Khimicheskikh nauk AN SSSR (Department of Chemical Sciences AS USSR), Akademiya nauk Azerbaydzhanskoy SSR (Academy of Sciences, Azerbaidjan SSR), Gosudarstvenny komitet Sovieta Ministrov SSSR po khimii (State Committee for Chemistry of the Council of Ministers of the USSR) and Soviet narodnogo khosyaystva Azerbaydzhanskoy SSR (National Economic Council of Azerbaidjan SSR). The Conference took place in Baku on April 3-7, 1962, and was devoted to the problem of starting materials for polymerization and polycondensation. 650 representatives of 103 organizations took part, and 142 papers were heard. D. F. Kutepov, vice-president of the State Committee for Chemistry of the Council of Ministers of USSR, presented a report on "The state and the prospects of development of monomer production." R. G. Ismailov discussed the problems of development of the petrochemical and refining industry. V. A. Kargin spoke about "The expansion of the realm of monomers in connection with progress in polymerization." The report of M.A. Dalin was devoted to the development of methods of production of olefin hydrocarbons. M. F. Nagiyev reported on "Contemporary problems of the technology of petrochemical synthesis." The section of olefin compounds heard reports on production of

Card 1/5

12th Conference on high...

S/204/62/002/003/002/002 I032/I232

of methylpentanes and of 2,3-dimethylbutane. Methods of synthesis of vinyl-cyclo-hexane were discussed by Ya. M. Paushkin and by A. V. Topchiyev, S. D. Mckhtiyev. The section of metal-organic chemistry heard a review report on "Phosphor organic monomers" presented by M. I. Kabachnik, Ye. L. Gester, P. A. Moshkin and T. Ya. Medved'. M. I. Kabachnik, P. A. Moshkin, S. L. Varshavsky, L. P. Kofman, Ye L. Gefter, G. V. Tkachenko, A. A. Danilevich reported on an industrial method of synthesis of di-β,β-chlor-ethyl of vinylphosphinic acid from ethylene oxide and phosphorus trichloride. A series of reports on the synthesis of various phosphorus-containing monomers was presented by the Kazan school of chemists (A. N. Pudovik, Ye. V. Kuznetsov, B. F. Malichenko, O. P. Grishina, etc.). On the synthesis of phosphorus-containing dicarbonic acids reported V. V. Korshak, T. M. Frunze and V. V. Kurashev, Ye. F. Bucherenko (IOKh AN SSSR) reported on the possibility of synthesis of phosphorus-silicon hydrides starting from unsaturated phosphorus containing compounds and silicon hydrides. Reports on silicon-organic compound with alternating siloxane and carbon elements were presented by A. M. Polyakova, M. D. Suchkova and V. M. Vdovin (INEOS AN SSSR) and by N. S. Nametkin and N. A. Printula. (INKhS AN SSSR). Telamerization of silicon-organic cycles was discussed by K. A. Andriyanov and V. V. Severny (INEOS AN SSSR). A simple method for the synthesis of aryl-fluor-silicon-hydrides was proposed by Ye. A. Chernysheva and M. Ye. Dolgaya (IOKH AN SSSR). V. F. Mironov and H. N. G. Dzhurinskii reported on a new preparative method for the synthesis

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of germanium-containing monomers. The synthesis of metacrylates and acrylates containing aluminum, boron, germanium was discussed by G. S. Kolesnikova, S. L. Davydova and N. V. Klimentova (INEOS AN SSSR) The only report on the use of hydrogen-containing silicon organic monomers, the manufacture of which is nonexistent, was made by A. Morozov (Goskhimkomitet). The section of starting materials for polycondensation heard reports on monomer production for the synthesis of polyamides and polyethers, polycarbonates and D epoxide resins. Production of maleic anhydride by oxidation of butylenes was discussed by B. L. Maldavskii. Reports from the Institute of Organic Chemistry, A. S. Latvian SSR discussed the possibility of production of maleic anhydride and maleic dialdehyde from furfurol. Experimental data about production of phthalic anhydride by oxidation of o-xylol were given in reports by A. F. Kamneva and L. A. Muzychenko, and by Kh. Ye. Khcheyan, A. F. Pavlichev., S. M. Arbitman, B. K. Kruptsov. Several communications dealt with methods for production of terephthalic acid. Production of hydroquinone and resoneinol by oxidation of p- or m-diisopropylbenzenes with air oxygen was discussed by V. V. Fedorov, M. S. Belen'kaya, et. al P.A. Moshkin, N. I. Kutsenko, L. K. Filippenko proposed a method for production of dicarboxylic acids with ten carbon atoms in the chain, using vinyl as starting material. Reports from INEOS and INKhS AN SSSR dealt with a new manomer for the production of the syntheric fiber dode-Kalaktan (L. I. Zakharkin, V. V. Korneva, G. M. Kunitstsraya, A. N. Bashkirova, V. V. Kamzolkin, K. M. Sokova). Data on the synthesis of perchloro-

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alkenes, perechloro-alkendienes and perchlorocyclodienes were given by Yu. G. Mamedaliyev and M. M. Guseinov (INKhP AN AzSSR). Ye. G. Denisov, V. V. Kharitonova (IKhF AN SSSR) discussed the mechanism of oxidation of cyclohexanol to cyclohexanone. The section of vinyl compounds heard the survey report by M. F. Shostakovskii on "The state and prospects of development of the manomer chemistry on the base of vinyl compounds". The conference heard reports on the synthesis of new monomers from acetylene and derivates of acrylic acids, vinyl ethers of the aromatic series, vinyl ethers of penta-crythrite (IOKh and Irkutsk IOKh AN SSSR), vinyl-carboxylic acids (IVS AN SSSR), vinyl substituted cyclic hydrocarbons (INKhPAN AZSSR), etc. Direct synthesis of acrylonitride on the basis of propylene was reported (Baku Experimental Factory, Inst. im. Karpov and Inst. of Chem. Science of KazSSR). Reports dealing with production of vinyl chloride from dichloro-ethane and acetylene, synthesis of allyl-vinyl ethers, vinyl substituted cyclohexane hydrocarbons (INKhP AzSSR), methods of purification of vinyl chloride, synthesis of unsaturated oxides, unsaturated nitro-compounds, etc., were also heard. The concluding plenary session heard a report by N. N. Semenov.

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S/249/62/018/010/003/004 D204/D307

AUTHORS: Dalin, M. A. and Lobkina, V. V.

TITLE: Some laws governing the oxidative ammonolysis of

propylene

PERIODICAL: Akademiya nauk Azerbaydzhanskoy SSR. Doklady, v. 18,

no. 10, 1962, 27-29

TEXT: The heat of reaction

 $c_3^{H_6} + NH_3 + \frac{3}{2} o_2 \longrightarrow c_3^{H_3}^{N}$

has been calculated as -123.332 kcal.mole from literature data, and the standard change of entropy as 17.957 cal-mole deg the free energies varied from -118.262 kcal-mole at 298 K to -101.232 at 1298 K, the corresponding values of log K where K is the

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Some laws governing ...

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equilibrium constant) being 80.0 and 17.0. As was confirmed experimentally, the reaction may proceed practically to completion, even at 1000° C. The degree of conversion of propylene, α , is given as $1-e^{-k\Upsilon}$, where Υ is time and k is a velocity constant, which obeys Arrhenius' equation. This expression was confirmed experimentally between 430 and 470°C. There are 2 figures and 3 tables.

SUBMITTED: October 10, 1962

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DALIN, M.A., akademik; LOBKINA, V.V.; ABAYEV, G.N.; SEREBRYAKOV, B.R.; PLAKSUNOVA, S.L.

Production of acrylonitrile based on propylene and ammonia.

Dokl.AN SSSR 145 no.5:1058-1060 '62. (MIRA 15:8)

1. AN Azerbaydzhanskoy SSR (for Dalin).
(Acrylonitrile) (Propene) (Ammonia)

DALIN, M.A.; SEREBRYAKOV, B.R.; LOBKINA, V.V.; GAMIDOVA, E.B.

Mechanism underlying the reactions taking place in the process of oxidizing ammonolysis of propylene. Azerb.khim.zhur. no.4:99-102 (MIRA 17:2)

PISUMAN, 1.1.; KERLYRY N. 1.7.; India Male, Fristman a custiye:

SAMOTAYEWA, N.A.; SA NEWYA, 12.

Production of A-butylon by the edydication of n-butyl
alcohol on aluminan extra 2-1. Second N. 12 Second 10
kinetics. Apart. Fris. Flux. 11.2. (Ind. 17:8)

GUREVICH, V.R.; DALIN, M.A.; VEDENEYEVA, L.Ya.

Polymerization of ethylene on a chromia catalyst. Azerb.khim.
zhur. no.6:37-43 '63. (MIRA 17:3)

SEREBRYAKOV, R.V.; DALIN, M.A.; KONOVALICHUKOV, A.G.

Some regularities in the reaction of cyanoethylation of hydrocyanic acid. Dokl. AN Azerb. SSR 19 no.11:31-34 163. (MIRA 17:3)

1. BNIIolefin.